



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTR-24-L49-835-SA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 19272.2

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 01-APR-2015

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-72LED 22"ARRAYS 2x4'RECESSED LUMINAIRE

[MORE] WHITE REFLECTOR w/ ACRYLIC RIBBED CENTER DIFFUSER

[MORE] EVERLINE LED DRIVER #D21CC80UNVTZ-D SET @ 78

[LUMCAT] PTR-24-L49-835-SA-xxx-xxx

[LAMPCAT] M700C835D72N2A

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Retrofit

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5076
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	71.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2220	2347	2479
55	1963	2147	2331
65	1768	2086	2390
75	1352	2092	2635
85	874	2301	2347

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1889.233	1889.233	1889.233	1889.233	1889.233
5	1879.429	1878.029	1879.429	1879.429	1880.130
10	1843.717	1845.118	1847.219	1850.019	1851.420
15	1761.790	1763.891	1768.792	1777.195	1780.696
20	1713.474	1718.375	1729.579	1742.183	1747.785
25	1581.129	1587.432	1611.240	1619.642	1626.645
30	1448.785	1492.200	1538.415	1611.940	1537.015
35	1303.837	1315.741	1345.150	1374.560	1387.164
40	1184.096	1198.101	1233.813	1270.225	1287.731
45	1095.867	1112.673	1158.888	1203.703	1224.010
50	941.815	961.422	1011.139	1059.455	1079.762
55	786.363	807.370	859.888	912.406	933.413
60	638.614	663.822	719.841	772.359	795.466
65	521.675	551.785	615.506	677.127	705.136
70	382.328	420.841	495.766	565.089	592.398
75	244.382	291.998	378.127	448.150	476.159
80	137.246	200.267	289.897	339.614	352.918
85	53.218	109.237	140.047	141.447	142.848
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	681.46	N.A.	13.40
0-30	1428.61	N.A.	28.10
0-40	2282.99	N.A.	45.00
0-60	3936.02	N.A.	77.50
0-80	4936.33	N.A.	97.20
0-90	5076.01	N.A.	100.00
10-90	4897.64	N.A.	96.50
20-40	1601.53	N.A.	31.60
20-50	2483.05	N.A.	48.90
40-70	2257.25	N.A.	44.50
60-80	1000.31	N.A.	19.70
70-80	396.09	N.A.	7.80
80-90	139.68	N.A.	2.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5076.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	178.36
10-20	503.09
20-30	747.15
30-40	854.38
40-50	881.52
50-60	771.51
60-70	604.22
70-80	396.09
80-90	139.68
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

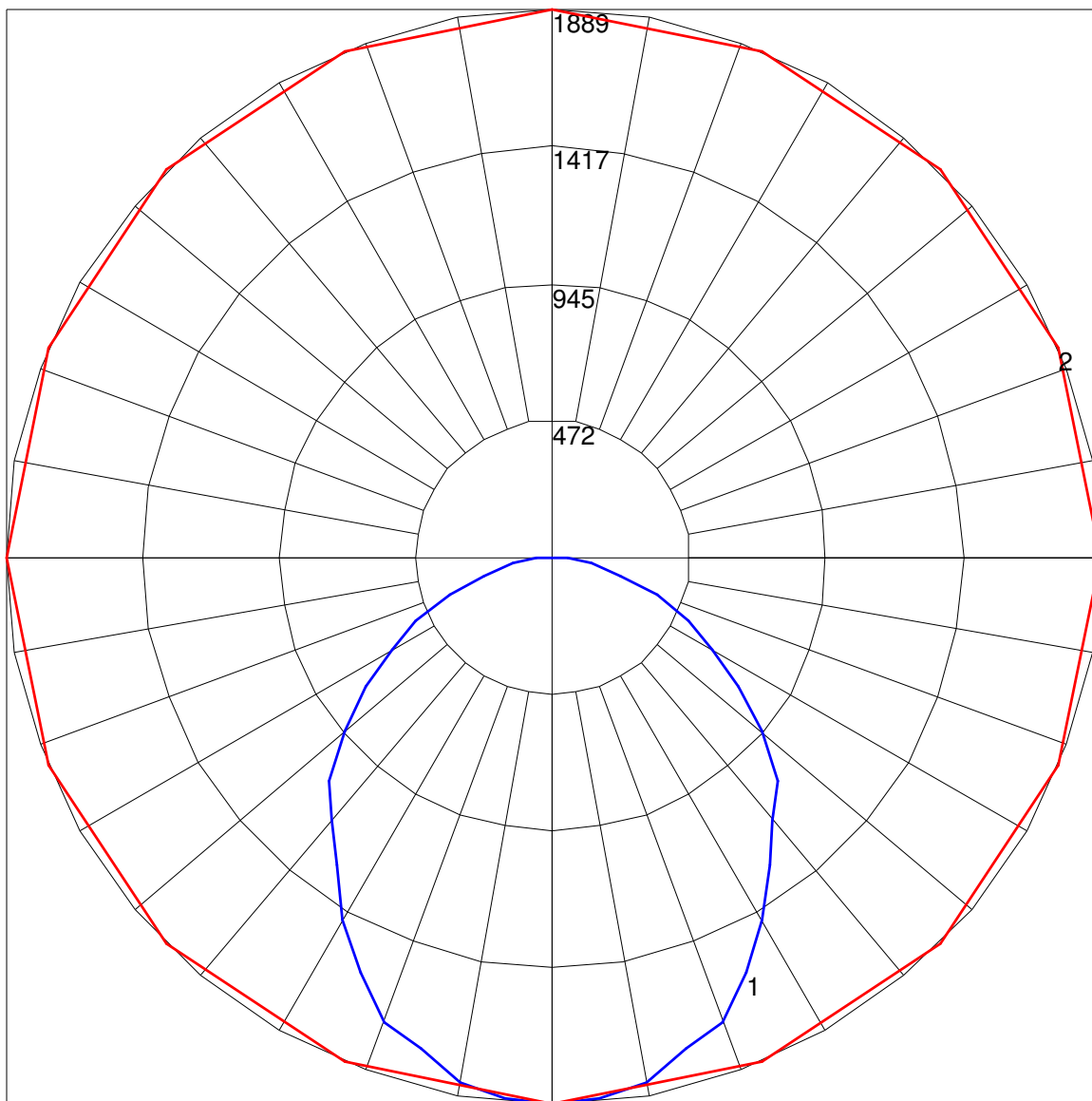
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	65	65	65	65	64	64	64	64	61	61	61	58	58	58	56	56	56	55
1	59	56	54	52	58	55	53	51	53	51	49	51	49	48	49	48	46	45
2	54	49	45	42	52	48	45	42	46	43	41	44	42	40	43	41	39	38
3	49	43	39	35	48	42	38	35	41	37	34	39	36	33	38	35	33	32
4	45	38	33	30	44	38	33	29	36	32	29	35	31	29	34	31	28	27
5	41	34	29	26	40	34	29	25	32	28	25	31	28	25	30	27	25	23
6	38	31	26	22	37	30	26	22	29	25	22	28	25	22	28	24	22	21
7	35	28	23	20	34	28	23	20	27	23	20	26	22	19	25	22	19	18
8	33	26	21	18	32	25	21	18	25	20	18	24	20	17	23	20	17	16
9	31	24	19	16	30	23	19	16	23	19	16	22	18	16	21	18	16	15
10	29	22	17	15	28	21	17	15	21	17	14	20	17	14	20	17	14	13

POLAR GRAPH



Maximum Candela = 1889.233 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)